

MCF 3M Opener

Factor

i) $x^2 - 7x + 10$

ii) $x^2 - 121$

iii) $3x^2 - x - 10$

iv) $9x^2 - 30x + 25$

Feb 11-3:37 PM

MCF 3M Opener

Factor

i) $x^2 - 7x + 10$

$$\begin{array}{l}
 x^2 - 7x + 10 \\
 \underline{-(x-5)(x-2)} \\
 x^2 - 5x - 2x + 10 \\
 \underline{-2x + 10} \\
 0
 \end{array}$$

ii) $x^2 - 121$

$(x-11)(x+11)$

iii) $3x^2 - x - 10$

$$\begin{array}{l}
 3x^2 - x - 10 \\
 \underline{3x^2 - 6x + 5x - 10} \\
 3x(x-2) + 5(x-2) \\
 (x-2)(3x+5)
 \end{array}$$

iv) $9x^2 - 30x + 25$

$$\begin{array}{l}
 9x^2 - 30x + 25 \\
 \underline{3x(5)(2)} \\
 (3x-5)^2
 \end{array}$$

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Work Period
Factoring Expressions
 $ax^2 + bx + c = 0$

p120-121
q1, 3-6, 8-13, 15-19

Sep 28-8:24 AM

$$\begin{array}{l}
 120 \text{ expand} \\
 b) -9(4a-5)(4a+5) \\
 -9(16a^2 + 20a - 20a - 25) \\
 -9(16a^2 - 25) \\
 -144a^2 + 225 \\
 -(144a^2 - 225) \\
 -(12a-15)(12a+15)
 \end{array}$$

Feb 27-10:22 AM

$$\begin{array}{l}
 c) 2(x^2-5) - 7x(8x-9) \\
 = 2x^2 - 10 - 56x^2 + 63x \\
 = -54x^2 + 63x - 10
 \end{array}$$

Feb 27-10:28 AM

$$\begin{array}{l}
 3a) 7x^2 - 14x \quad (7x)(x-2) \\
 b) b^2 - b - 20 \\
 b^2 - 5b + 4b - 20 \\
 b(b-5) + 4(b-5) \\
 (b-5)(b+4)
 \end{array}$$

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$$\begin{array}{l}
 \overbrace{3a^2 + 10a - 8} \\
 3a^2 + 12a - 2a - 8 \\
 3a(a+4) - 2(a+4) \\
 (a+4)(3a-2)
 \end{array}
 \quad
 \begin{array}{r|l}
 A & M \\
 +10 & -24 \\
 \hline
 -2 & +12
 \end{array}$$

Feb 27-10:37 AM

$$\begin{array}{l}
 5. A = 6x^2 - 8 \quad A = (2)(3x^2 - 4) \\
 A = 2(3x^2 - 4) \\
 \quad \quad \quad 3x^2 - 4 \\
 2 \boxed{A = 6x^2 - 8} \\
 1 \text{ possibility}
 \end{array}
 \quad
 \begin{array}{r|l}
 A & M \\
 0 & -12 \\
 \hline
 \wedge
 \end{array}$$

Sep 28-8:20 AM